

January 29, 1987

Chief, Site Investigation and Compliance Branch Emergency and Remedial Response Div. U.S. Environmental Protection Agency 26 Federal Plaza New York, New York 10278

Attn:

Nigel Robinson

Asbestos Disposal Sites

Dear Mr. Robinson:

Enclosed please find two copies of the revised "Addendum to the Site Operations Plan" which incorporates EPA's, Ebasco's and NJDEP's comments discussed at the January 27, 1987 meeting. It should be noted that this work plan is an addendum and that all procedures, particularly health and safety procedures, which are contained in the approved Site Operations Plan are applicable to this investigation.

I will call you on **Hednesday m**orning to discuss any comments you may have. Otherwise, we plan on beginning work on February 9, 1987.

Sincerely,

FRED C. HART ASSOCIATES, INC.

trances B Barlan

Frances B. Barker Manager, Sampling Programs

FBB: 1mc (01005)

Encls.

cc: Hilliam Tucker
Bill Colvin
Ed Kaup
Larry Horden
Jim Moorman
Tom Morahan

(0335M-34)

INTRODUCTION

Fred C. Hart Associates, Inc. (HART) has been retained by National Gypsum Company of Dallas, Texas and is currently engaged in a Remedial Investigation (RI) in and around Millington, NJ. This investigation has been implemented pursuant to CERCLA Administrative Order - 50103 between National Gypsum Company and the United States Environmental Protection Agency (USEPA) under the National Superfund Program.

As part of the Remedial Investigation, a groundwater monitoring network was installed at a site (designated Site A, Figure 1) within the Great Swamp National Wildlife Refuge. Prior to the installation of this monitoring network, a metal detection survey was conducted by HART personnel during preliminary subsurface site characterization. Findings of this preliminary survey, (Figure 2), indicate that there are a number of locations concentrated within this area with underlying metal objects.

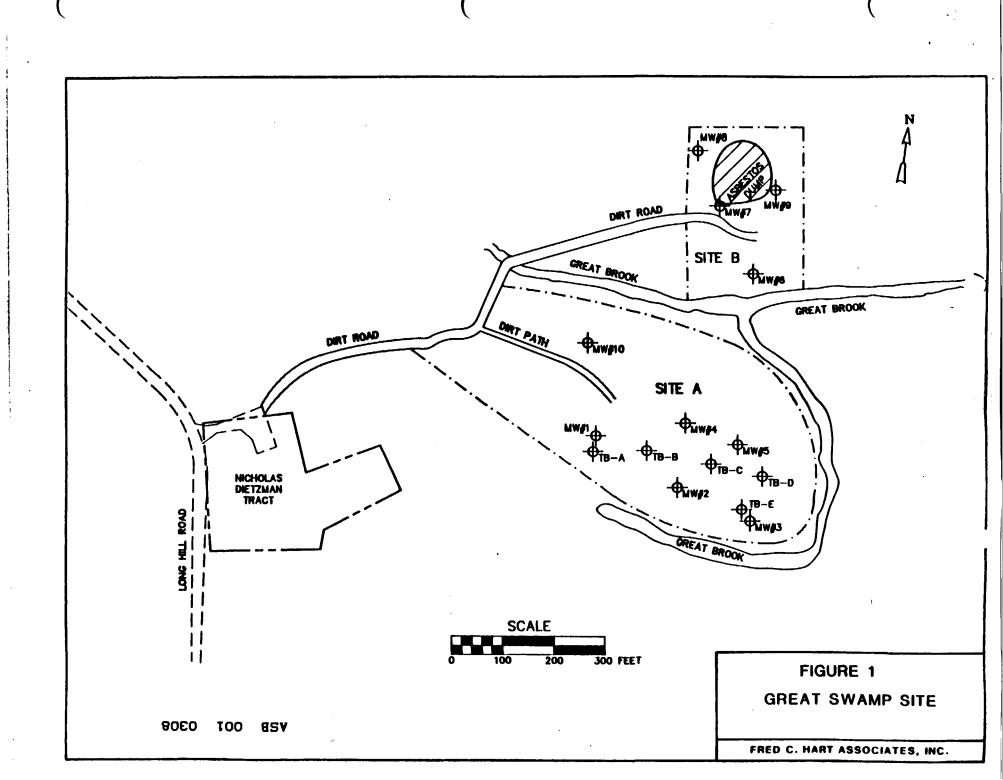
At this point, the nature of these objects has not been determined. Discussions with refuge personnel have revealed that drums may be present on the site. The existence of rusted drums located on the surface in the vicinity of the site also points to the possibility of drummed waste at this location. Prior to the finalization of the RI report, full site characterizations are required in order to develop accurate endangerment assessments and feasibility studies.

Based on these findings, HART proposes to investigate further the subsurface of Site A within the Great Swamp National Hildlife Refuge prior to the submittal of the RI report. Details of this task are described below.

Purpose

The purpose of this investigation is to characterize further the subsurface conditions at Site A within the Great Swamp National Wildlife Refuge. Specifically, the investigation will focus on the presence of

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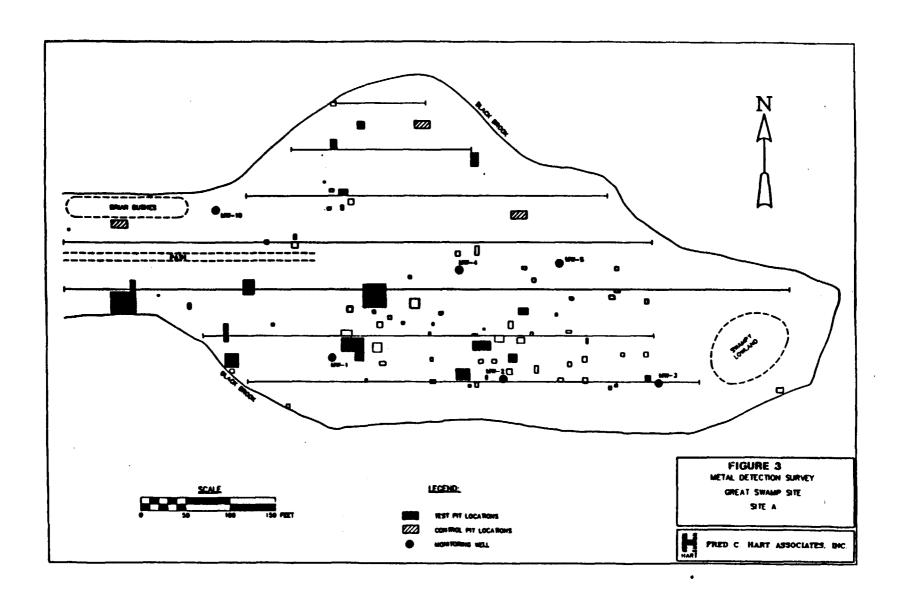
buried drums and a representative characterization of their waste materials. Also, data collected during this task will be evaluated and employed during the endangerment assessment and feasibility study.

Procedure

The first phase of this study will consist of surveying the entire area within Site A with a metal detector in an effort to locate prospective drum locations. This task will be accomplished by first constructing a surveying grid based upon 50 feet centers. A Pollard Model TM-5 metal detector will be employed to locate the metal. Data collected during the metal detection survey will be plotted on a base map and utilized to select test pit locations. Grid construction and metal detection surveying will be performed by HART personnel.

Following the completion of the metal detection survey, HART will meet with representatives of the U.S. Environmental Protection Agency (USEPA) and New Jersey Department of Environmental Protection (NJDEP) to determine the actual test pit locations. Control pits may be constructed in locations where metal was not detected, at the discretion of the HART on-site coordinator and EPA representatives. Anticipated test pits and control pits are provided in Figure 3. Test pits will be constructed using a rubber tire backhoe with bucket teeth removed. All test pits will be logged by a HART field geologist who will keep a complete description of materials encountered and observations in the field test pit log.

In the event that buried drums are located, HART and its subcontractor (HAZTECH) in coordination with representatives of the USEPA and NJDEP, will determine which drums are of suitable integrity to be removed and sampled. Drums will be recovered with a backhoe which will be equipped with an enclosed, explosion-proof cab and a separate air supply source. The excavation and drum sampling will be performed in Level B protection. The equipment operator will be careful when digging for drums to keep from puncturing a drum unexpectedly. Upon discovery of a drum, the operator will isolate the drum in order for HAZTEC personnel to attach a drum sling around the drum. If this is not possible or safety conscious, then



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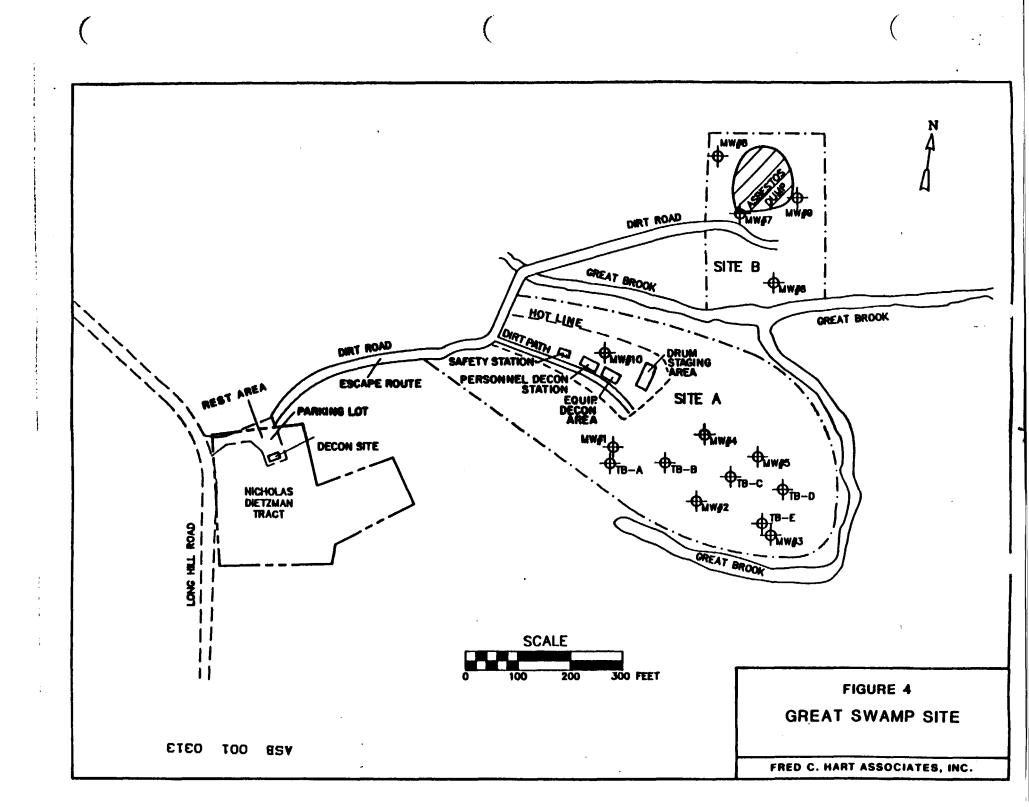
HAZTECH technicians will carefully dig around the drums with hand tools in order to attach a drum sling to remove the drum from the excavated area.

After removing the drum from the test pit, it will be sampled with a clean drum thief. A drum thief is a hollow glass tube that is inserted into the drum through the bung and allowed to fill with the drummed content. The drum thief is then removed and used to fill laboratory supplied glassware. If a drum should have to be punctured, a ground wire will be attached to the drum to prevent static electricity and a punch attachment on the backhoe will be utilized. Sampling will be documented with a complete sampling log. Pictures of every excavated drum will also be taken.

Immediately following the sampling, each drum will be overpacked, labeled and placed in the staging area which will be bermed and lined with a heavy 20 mil liner to contain any discharge in the event of contaminant release. In addition, the staging area will be surrounded by a six-foot fence outside the berms to protect the drums from vandalism and curious wildlife. The fence and drums will be well-labeled to inform the public about the staging area.

The test pits will be backfilled with on-site fill following their completion. Additional clean fill will also be available to backfill those test pits from which buried drums are removed. These test pits will be filled with clean fill at the bottom and then covered with the removed asbestos fill material.

When all sampling and staging activity is completed, all contaminated equipment will be decontaminated with Alcononx detergent and water at the decontamination area within Site A (Figure 4). Final decontamination will occur at the decontamination area in the parking lot (Figure 4). All decontamination water will be drummed and sampled to determine proper disposal methods. Care will be taken to minimize decontamination water to reduce future disposal. Upon tearing down the site, special attention will be taken to thoroughly police for materials and trash due to the sensitivity of the site.



The samples will be properly labeled and packed and sent to Wadsworth Alert Laboratory in Canton, Ohio for analysis. All drum samples will be analyzed for te parameters listed in Table 1. Following the receipt of laboratory analyses, HART will provide a disposal plan to USEPA for approval.

Test pit construction, drum removal, sampling, and disposal will be performed by HAZTEC of Bordentown, New Jersey. Health and safety procedures are provided in Attachment 1. All field work will be conducted in Level B protection. An HNu, explosimeter, and an oxygen meter will be employed during the field effort as part of the health and safety procedures. These instruments will be utilized by technicians stationed in the immediate vicinity of the test pits. Specifically, the HNu will be utilized at the exclusion zone perimeter (an area of 50 foot radius from the test pits), during drum sampling, and in the breathing zone at the test pits. The explosimeter and oxygen meter will be used during test pit excavation.

A hotline will also be established at Site A to ensure safety of all personnel. Once personnel cross the hotline, they will undergo full decontamination in the personnel decontamination area. This decontamination procedure will consist of an alconox detergent and water rinse followed by a water wash of all gloves, boots and outer protective clothing. All disposal protective clothing will be drummed for proper disposal.

Waste Characterization
Total Cyanide and Sulfides
Flashpoint
Compatibility
Ignitability
EP Toxicity

Priority Metals
13 metals
HEX chrome

Phenols

Priority Pollutants - Peaks

Pesticides

Volatile Organics

Acids

Base Neutrals

PCBs

EPA Method - 624, 625 - Liquids

- Includes tentative ID of compounds and concentrations

Note: For solid materials - EPA method SW846 which is a preface for 8240, 8270 and 8080 will be used.

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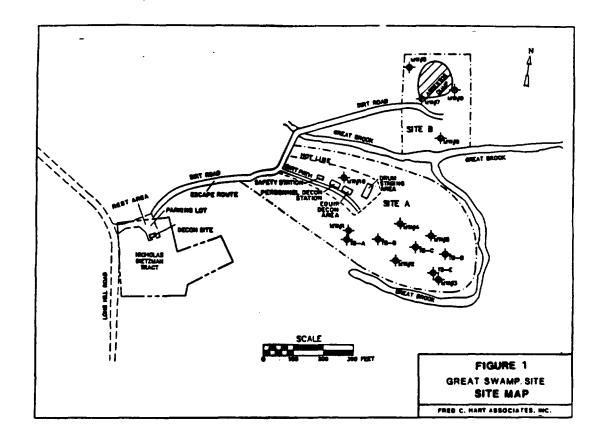
ATTACHMENT 1

SITE SPECIFIC HEALTH AND SAFETY PLAN

Site Name: Great Swamp Site	Site Address: Morris County, NJ
Project Name: Fred C. Hart/Great Swamp	
Project #: 2322-87-0610	
Project Mgr/Operations Mgr: Paul William	is
Supervisor: Dan Clingan	Off Site Phone # (609)298-8705
Site Health & Safety Officer: Dan Clinga	n Foreman: Steve Holt
Haztech Personnel:	· · · · · · · · · · · · · · · · · · ·
Plans prepared by: Dan Clingan Position/Title: Supervisor Signa	Date: 1/2//8/
Plans reviewed by: Sonya Manejkowski Position/Title:Corp. Occupational Hygieni Signature (if available)	Date: 1/27/87
Amendments prepared by: Position/Title:	Date:
SUMMARY OF ACTIVITIE	S/OBJECTIVES
Directions: In short blanks put in check, blanks, write in information.	if appropriate. In long
I. Site description: SpillHW Site	X Site: possible drum site landfill
other	
Features: Tanks drums X contanine buildings dikes power lines dips in the land X other	sumps X bodies of water X
Site map should indicate: Exclusion zone, tamination zone, support area, escape roudirection, 1st aid area, rest area, featus sketch below.	hotline demarkation, decon- tes, entrances, work areas, upwind
babiyong is new is	on the following page

ite Map is provided on the following page.

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Note:

The exclusion zone will be designated as the area extending in a 50 foot radius from the test pits.

The entrance and escape routes will be along the dirt road.

The work areas are scattered throughout Site A.

The first aid area will be in the saftey station.

II. Work Plans:

					diat CT6							r	
2.	Soil:	exca	vation	XT	reatment		Di	sposa	1	_Oth	er _		
3.	Drum:	exca	vation	X Samp	ling X	Stag	ing	X	Dis	osal	_X	Other	
	Treate	ment	1	Disposal		Othe						•	
4.	Well:	insta	Ilation	n:	NA	5.	Water	Trea	tment		NA		
5.	Build	ing D	econtai	nination	NA		Demol	ition	N	A			
7.	Other	:											
	,												
III	. Phys	sical	Hazar	is: Heat	Co	\overline{x}	_ Radı	ation					
_							h						
Tui	content	c wea	tner _				nea	vy eq	n i bwe	nt no	orse '		
		_		•							_		

Probability of fire/presence of flammables: minimal Other:
Please list known substances & write in information for each one and note which reference (106 or some other) was used. The hygienists can assist.

Much of the information for the following can be found in:

- 1. ACGIH's TLV'S Threshold Limit Values and Biological 1986-87
- 2. ACGIH's Guidelines for the Selection of Chemical Protective Clothing
- 3. NIOSH's Pocket Guide to Chemical Hazards
- 4. NIOSH's Analytical Methods & Sampling
- 5. SAX's Dangerous Properties of Industrial Materials
- 6. SITTIG's Handbook of Toxic & Hazardous Chemicals & Carcinogens

IV.	Substance	Liquid	Sludge	Solid	Vapor/Gas	Attached to Particulate
	Methylene				•	
	Chloride	-	•	-	X	X
	Trichloro-					• 1 •
	fluoromethane	e -			X	X
	Chloroform	-			X	X
	Benzene	-			X	X
	Toluene	-			X	X
	DDT			-	X	X
	Diethyl					
	Phthalate				X	X

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				•			
Substance	Syn	mptoms			Skin Absor	ber Skin	Irrita
Methylene Chloride	ING	-limbs, -irrit	eak sleep lt numb, tingl eyes, skin, angina	e, nav	-		x
Trichloro-							
fluoromethan	ING		tremors, der ite, card ar		-		X
Chloroform	ING - CON -	nav head	ntal dulines d ftg anes egaly eye sk		-		x
Benzene	ABS -	giddy, h gered ga lass, de	yes, nose, r nead, nau, s ait ftg abno erm, bone ma abddm pain,	tag- r. rrow	x		x
Toluene	See B	Benzene			-		x
DDT	ABS - ING - CON -	tremor a mal head paresis	ongue, lip, appre, dizz, d convuls hands, vomi	conf			x
ni - short		elea' ev	cin, carc.	•			
Diethyl Phthalate			t mucous mem narcotic		/e -		x
Substance	<u>Fla</u>	mmable	Explosive	Shock Se	ensitive	Flashpoint	LEL
Methylene Chloride Trichloro		-	-	-	-	12°F	`
fluoromethane	2	-	-	-	-	X	
Chloroform		-	-	-	•	X	
Benzene		X	-	-	-		1.3
Toluene		X	-	-	•		1.3
DDT		-	-	-	•	-	
Diethyl			.			33505	
Phthalate	מ	not avail	lable			325°F	ASB
							001
							6160

PEL/		(In TLV		
TLV	Skin Notation	Book)	IDTH	Odor Threshold
(100)				
	X		5000ppm	4096 ppm
C1000	NA		10000ppm	NA
10	-		1000ppm	NA
10	-		2000ppm	30 ppm
100	-		2000ppm	300-400 ppm
-			CA	NA
5mg/m ³			not avail	not avail
	(100) (100) Cl000 10 10	TLV Skin Notation (100) X C1000 NA 10 - 10 - 100 -	TLV Skin Notation Book) (100) X Cl000 NA 10 - 10 - 100 -	TLV Skin Notation Book) IDLH (100) X 5000ppm C1000 NA 10000ppm 10 - 1000ppm 10 - 2000ppm 100 - 2000ppm - CA

Total Organic Vapors (from HNu,OVA)

V. Air Monito	ring			
Air Monitoria	g Equipment Nee	d:	-	
HNu X OVA	O ₂ meter	X Explosimeter	X Pumps S	Sample Media_
Detector tube	types (especia	lly useful for inc	organics)	other
	o calibrate and COH in Atlanta	to attach log with at jobs end.	th air monitorin	ng data. Sen
Air Monitorin	g Plans(where,	who, when, with wh	hat instruments,	, etc).
		at job perimeter a 2 + explosimeter a		
	oring Results:		makal ou	
Substance	Quantity	Equipment used	rotal Org	anic Vapors

Please fill in the blank	s. Hygienists will be happy to assist.
Air Monitor ng Consequen Concentrati n of Le Contaminant Pr	ces: vel of otection Specific Information
0 ppm to 10 ppm Level D	Coveralls tyvek Safety glasses/goggles yes if splash Kind of glove cotton Safety boot steel toe Kind of protective footwear Other hardhat
10ppm to 100ppm Level C	Full face resp. cartridge organic & hepa
	Kind of protective clothing tyvek Hood tyvek Kind of inside glove vinyl Kind of outside glove PVC Chemically resistant safety boot Kind of protective footwear neoprene rubber oute Other hard hat with spash gear
	Kind of protective clothing tyvek, chemical suit Hood tyvek Kind of outside glove PVC Kind of protective footwear rubber Other
500pm to X ppm level A	SCBA NA Encapsulating Suit NA Plus items listed in Level B NA Other NA
Switch to SCBA's when level Please remember the protection	or all excavation activities. yels are IDLH, 02 is 19.5% or less. ection factor for full face cartridge respirator is ECBA is 10,000.
Multiply the protection in ppm allowed for that resp	factor x the TLV = maximum amount of contaminant in parator.
For example: full face ca	artridge respirator X TLV Benzene
	X 10ppm ≤ 500 ppm benzene ok with that respirator

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XI	Emergenc vehicles	y Contacts likely to	- Post at Site be used during	, in many an emerge	locationcy.	ons. Post	map in
Loc	cal Assista	nce:				-	
1.	Paramedics	: Phone # _	201-522-2232	·			
2.	Hospital:	Phone # _	201-522-2232	······································		Travel Time	e
		Name Over	look Hospital	_ Address	Summi	t, NJ	
Мар):						
	-	•	201-647-1806 201-647-1806		·		
5.	Poison Cent	ter Phone #	201-522-223	2	<u>·</u>		
Oth	ner Assista	nce:					
Occ	upational N	Medicine As	sociates (OMA) A:	(404) 449 fter Hours			
EPA Che Bur Nat Cen DOT DOT US	tional Responder for District Office of Pregulation Coast Guard	3043 hrs) 800-42 losives (24 onse Center sease Contro f Hazardous hs (202) 42 d (major in	hrs) (202) 293 (NRC) 800-424- ol (CDC) 404 33 Operations (20	-3802 29-3534 02) 426-06 426-8802			ASB

HEALTH AND SAFETY EQUIPMENT LIST

SCBA's Tyvek Suits' with hoods Saranac Suits **PVC Gloves** Surgical Gloves Disposable Bootles Full Faced Respirators **HEPA Organic Vapor Cartridges** Safety Goggles Cascade Manifold System Air Line Hoses Portable Eye Wash HNu Photoionizer Meter Explosimeter Oxygen Meter Fire Extinguishers Dedicated Drum Thiefs Portable 2-Way Radios First Aid Kit Hard Hats Face Shields Emergency Oxygen K1t Non-Sparking Tool Set Fencing Duct Tape 20 mil Liner Material Overpack Drums Sorbant Pads Trash Bags Clean Fill Pick-up Truck **Box Truck**

CONTINGENCY PLAN

The objective of the contingency plan is to minimize hazards to human health and the environment for fires, explosions or any uplanned releases of waste into the air, soil, or surface water that may occur during the field activities. In the event that a fire, spill or other emergency situation develops, the site safety officer will be the emergency coordinator responsible for coordinating all emergency response measures. This person has the authority to commit all resources necessary to carry out the contingency plan. The emergency coordinator will be Ms. Frances Barker. The alternate emergency coordinator will be Mr. Steve Hambos

7. <u>Implementation of Contingency Plan</u>

In case of an emergency situation, the emergency coordinator has full authority to make the decision concerning the implementation of the contingency plan. Depending on the degree of seriousness, the following potential emergencies might call for the implementation of the contingency plan at Site A of the Great Swamp Site.

<u>Spills</u>. Spills of contamination from recovered drums and drummed contaminated water from decontamination sites will be absorbed with an absorbent, such as Speedy-Dri, and contaminated absorbent and soil will be drummed. Contaminated materials will be properly disposed.

Spills of fuels, hydraulic oils or other petroleum products will be cleaned up using absorbent, showels and rakes. The spilled material will be place din plastic bags, buckets and/or 55 gallon drums for transport and disposal. All fueling and maintenance of the equipment will be conducted at least 50 feet from rivers, steams, and ponds.

<u>Flooding</u>. If a flood should occur due to a heavy rainfall, the area will be evacuated immediately.

Release of Asbestos. During test pit excavation fibrous asbestos may be disturbed and become airborne. If this occurs, water fill be used to wet the asbestos, thereby lowering the levels of asbestos in the air. As a contingency, mist applicators will be kept at the site during test pit excavations.

<u>Fire/Explosion</u>. This hazard is not expectant due to the nature of the materials anticipated to be encountered. But, as a contingency, fire extinguishers capable of handling chemical and electrical fires will be available onsite. In the event of fire or an explosion, all personnel will be evacuated and the local fire and police departments will be notified as well as staff members of the Great Swamp National Wildlife Refuge. Additionally, the local fire and police department will be notified of the commencement date of the test pit operations, so that they are adequately prepared for any emergency.

Emergency Response Procedures. In the event of a non-acute emergency, the procedures listed below will be followed.

- 1. Any employee discovering or causing a non-acute emergency situation must immediately contact the emergency coordinator.
- 2. The emergency coordinator will assess the situation and contact the appropriate personnel to respond to the emergency situation.
- 3. The emergency coordinator will take all necessary measures to contain the hazard and to prevent its spread to the environment and to adjacent homes.
- 4. Safety measures will be taken to ensure maximum protection of emergency personnel and will include the use of appropriate protection equipment.
- 5. All non-emergency personnel will be removed from the hazard area until the hazard has been contained and controlled.

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- 6. Following containment and control of the emergency, the emergency coordinator will asses the situation to determine it all contaminated wastes generated by the emergency personnel have been collected and disposed on on-site.
- 7. The emergency coordinator will ensure that all emergency equipment is restored to full operational status by the emergency personnel.
- 8. The emergency coordinator will investigate the cause of the emergency and will take steps to prevent the recurrence of such an incident.
- 9. The emergency coordinator will notify Morris County or Passaic County Health Department.
- 10. If necessary, the emergency coordinator will submit a written report of the incident to the Administrator of EPA Region II.